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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/688,216	10/16/2000	KNUD ERIK BAEKGAARD	740119-98	8804
22204	7590 05/07/2004		EXAMINER-	
	ABODY, LLP	GRIER, LAURA A		
401 9TH STF SUITE 900	REET, NW	ART UNIT PAR		PAPER NUMBER
WASINGTON, DC 20004-2128			2644	.)
			DATE MAILED: 05/07/200	4 / X

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summer	09/688,216	BAEKGAARD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Laura A Grier	2644			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period vorus - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. If the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15 Ja	anuary 2004.				
——2a)⊟—This-action-is- FINAL . 2b)⊠-This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) is/are pending in the applicatio	n.				
4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5)⊠ Claim(s) <u>5,10 and 13-20</u> is/are allowed.					
6) Claim(s) <u>1,3,4,9,11 and 12</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the		` ,			
Replacement drawing sheet(s) including the correct	·				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents 	s have been received.				
Certified copies of the priority documents	s have been received in Applicati	on No			
Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
application from the International Bureau	` ''				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)	·	•			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	(PTO-413)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) 🔲 Other:	•			

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Specification

- 1. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. The hyperlink is cited on page 4, lines 3-4 and page 12, line 2. See MPEP § 608.01.
- 2. The indicated allowability of claim 4 and 13 is withdrawn.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites "A/B comparison", the exact meaning of an "A/B comparison" has not been disclosed in the specification. The provided examination in the specification only explained a simple comparison between a filter and unfiltered signal.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1, 4, 6, 9, and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harley in view of Hower, U. S. Patent No. 4534058.

Regarding claim 1, Harley discloses an active noise control stethoscope (figures 1-4).

Harley's disclosure comprises a sensor means, which inherently teaches a vibration transducer as evident by the fact that sensor detects body sounds (vibrations, etc.) and converts the sound into electrical signals (col. 10, lines 55-60); a headset (13), which constitutes as headphones; a FIR filter for providing amplification (col. 10, lines 10-12); and a digital filter (col. 7, lines 5-27), wherein the electric stethoscope provides an acoustic output; and as well a noise control stethoscope constitutes as a type of acoustic stethoscope. However, Harley fails to specifically disclose a pre-emphasis filter means. The examiner maintains that such a filter was well known in the art.

Regarding the filter, in a similar field of endeavor, Hower discloses electronic a stethoscope that includes a filter integrated with an amplifier (abstract and col. 1, lines 32-41), which reads a pre-emphasis filter means.

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Harley by incorporating a filter as taught by Hower for the purpose of removing unwanted frequencies (high frequencies and amplifying low frequencies from a range of 25 to 150-200Hz for the purpose of providing superior noise rejection as taught by Hower.

Regarding **claim 9**, Harley and Hower discloses everything claimed as applied above (see claim 1). Harley further discloses support providing automatic amplification control (col. 10, lines 25-30).

Regarding **claim 11**, Harley and Hower discloses everything claimed as applied above (see claim 1). Harley further discloses the headphone arrangement with transducer fitted in an immediate proximity of the ear canal of each ear (figure 1 and col. 5, lines 46-51).

Regarding **claim 12**, Harley and Hower discloses everything claimed as applied above (see claim 1). Harley further discloses means of providing adequate compensation (col. 9, lines 63-67 and col. 10, lines 25-46).

Regarding **claim 4**, Harley discloses an active noise control stethoscope (figures 1-4). Harley's disclosure comprises a sensor means, which inherently teaches a vibration transducer as evident by the fact that sensor detects body sounds (vibrations, etc.) and converts the sound into electrical signals (col. 10, lines 55-60); a headset (13), which constitutes as headphones; a FIR filter for providing amplification (col. 10, lines 10-12); and a digital filter (col. 7, lines 5-27), wherein the electric stethoscope provides an acoustic output; and as well a noise control stethoscope constitutes as a type of acoustic stethoscope. However, Harley fails to specifically disclose a pre-emphasis filter means. The examiner maintains that such a filter was well known in the art.

Regarding the filter, in a similar field of endeavor, Hower discloses electronic a stethoscope that includes a filter integrated with an amplifier (abstract and col. 1, lines 32-41), which reads a pre-emphasis filter means.

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Harley by incorporating a filter as taught by Hower for the purpose of removing unwanted frequencies (high frequencies and amplifying low frequencies from a range of 25 to 150-200Hz for the purpose of providing superior noise rejection as taught by Hower.

Further, Harley and Hower, fails to disclose the use of an amplifier and the use of multiple headphones with an amplifier. The use of an amplifier and various headphones being used by the same amplifier is commonly known in the art. Thus, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Harley and Hower by implement an amplifier adaptable to various types of headphones for the convenience of interchanging a headphone as needed for the desired audio quality.

Allowable Subject Matter

- 8. Claims 5, 10 and 13-20 allowed.
- 9. Claim 3 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 10. Claims 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Murphy, U. S. Patent No. 6219424 discloses an electronic stethoscope amplifier.

Response to Arguments

12. Applicant's arguments filed 12/4/03 have been fully considered but they are not persuasive.

In view of the applicant's arguments submitted regarding claims 5 and 6, the rejection has been removed. However, the argument relevant to claim 1 is not persuasive in view of the amended the changed. The amended fails to further limit the claim. The frequency range of the filter taught Hower discloses a range that reads on "... throughout the range of from about 20 Hz to about 3000 Hz). Thus the rejection is maintained. Regarding the applicant's argument concerning claim 11, the claim language is limiting to the exact meaning of "fitted in immediate proximity to the ear canal" as explained in the arguments. Immediate proximity is interpreted to broadly. Thus the rejection is maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (703) 306-4819. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386.

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

LAG May 3, 2004

MINSUN OH HARVEY PRIMARY EXAMINER